

CLAIMS

We claim:

- 1 1. A method for operating a client to establish a network
2 connection with a server, comprising the steps of:

3 negotiating environment parameters for establishing a
4 connection-oriented connection with said server;

5 said parameters including a request for said server to
6 provide a confirmation record; and

7 responsive to said request, receiving said confirmation
8 record.

1 2. The method of claim 1, said request being an implicit
2 request.

1 3. The method of claim 1, said request being an explicit
2 request.

1 4. The method of claim 1, said confirmation record
2 including a device name assigned by said server to said
3 client connection.

1 5. The method of claim 4, said confirmation record
2 including a response code indicative of the cause of a
3 failed connection.

1 6. The method of claim 5, responsive to said response
2 code, retrying said negotiating step.

1 7. The method of claim 1, said client being a Telnet
2 client, and said negotiating step including negotiating new
3 environment and terminal type parameters.

1 8. A method for operating a server in a network,
2 comprising the steps of:

3 receiving a connection request from a client;

4 inviting said client to negotiate environment
5 parameters;

6 responsive to client acceptance, negotiating said
7 parameters;

8 assigning a virtual device name to said client; and

9 responsive to receiving a request for a confirmation
10 record, providing to said client a confirmation record
11 including, for a successful connection, said virtual
12 device name and, for an unsuccessful connection, a
13 return code indicative of the cause of failure of said
14 connection.

1 9. A system, comprising:

2 a client;

3 a server;

4 a connection network for interconnecting said client
5 and server; and

6 said server selectively operable responsive to a
7 request for a confirmation record from said client
8 during negotiations for a connection oriented
9 connection for providing in said confirmation record to
10 said client, for a successful connection, a virtual
11 device name assigned by said server to said client and,
12 for an unsuccessful connection, a return code
13 indicative of a cause of failure of said connection.

1 10. The system of claim 9, said server being a Telnet
2 server and said client a Telnet client.

1 11. The system of claim 10, said connection oriented
2 protocol being a Telnet protocol according to which new
3 environment parameters including an express or implicit
4 request for said confirmation record may be negotiated.

1 12. A program storage device readable by a machine,
2 tangibly embodying a program of instructions executable by a
3 machine to perform method steps for operating a client to
4 establish a network connection with a server, said method

5 steps comprising:

6 negotiating environment parameters for establishing a
7 connection-oriented connection with said server;

8 said parameters including a request for said server to
9 provide a confirmation record; and

10 responsive to said request, receiving said confirmation
11 record.

1 13. A program storage device readable by a machine,
2 tangibly embodying a program of instructions executable by a
3 machine to perform method steps for operating a server in a
4 network, said method steps comprising:

5 receiving a connection request from a client;

6 inviting said client to negotiate environment
7 parameters;

8 responsive to client acceptance, negotiating said
9 parameters;

10 assigning a virtual device name to said client; and

11 responsive to receiving a request for a confirmation

12 record, providing to said client a confirmation record

13 including, for a successful connection, said virtual

14 device name and, for an unsuccessful connection, a

15 return code indicative of the cause of failure of said

16 connection.

1 14. A computer program product or computer program element

2 for operating a client to establish a network connection

3 with a server according to method steps comprising:

4 negotiating environment parameters for establishing a

5 connection-oriented connection with said server;

6 said parameters including a request for said server to

7 provide a confirmation record; and

8 responsive to said request, receiving said confirmation

9 record.

1 15. A computer program product or computer program element
2 for operating a server in a network according to method
3 steps comprising:

4 receiving a connection request from a client;

5 inviting said client to negotiate environment
6 parameters;

7 responsive to client acceptance, negotiating said
8 parameters;

9 assigning a virtual device name to said client; and

10 responsive to receiving a request for a confirmation
11 record, providing to said client a confirmation record
12 including, for a successful connection, said virtual
13 device name and, for an unsuccessful connection, a
14 return code indicative of the cause of failure of said
15 connection.